

- PROJECT DESCRIPTION

I. GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALATION OF A NEW TRAFFIC CONTROL SIGNAL AND LIGHTING AT THE INTERSECTION OF I-695 (BALTIMORE BELTWAY) AND GREENSPRING AVE. IN BALTIMORE COUNTY, MARYLAND. GREENSPRING AVE. IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA THREE (3) PHASE, FULLY TRAFFIC ACTUATED MODE. THE GREENSPRING AVENUE APPROACHES WILL OPERATE CONCURRENTLY. THE I-695 OFF RAMP APPROACH WILL OPERATE SEPARATELY. THIS SIGNAL WILL BE CONTROLLED FROM THE PROPOSED CONTROLLER AT GREENSPRING AVENUE AND MD 133.

III. SPECIAL NOTES

I. THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET AT MD 133 (OLD COURT ROAD) AND GREENSPRING AVE. ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS WORK.

2. MOT PLATES FOR THIS PROJECT WILL BE AS FOLLOWS: 104.00 TO 104.00+12, 104.02-01, 104.03-01

ITEM NO.	QUANTITY	DESCRIPTION
120500	1 L.S.	MAINTENANCE OF TRAFFIC
203030	3 CY.	TEST PIT
585445	90 LF	FURNISH AND INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP LINE)
801004	7.27 CY	FURNISH AND INSTALL CONCRETE SIGNAL FOUNDATION
805105	130 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - BORED
800000	450 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED
805115	70 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT - BORED
805118	170 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - BORED
805011	20 LF	FURNISH AND INSTALL 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
805160	15 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE
811001	7 EA	FURNISH AND INSTALL HANDHOLE
813015	26 SF	INSTALL OVERHEAD SIGNS
802501	50 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
800000	6 EA	FURNISH AND INSTALL 12 INCH OPTICALLY PROGRAMED TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
800000	12 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
813014	18 SF	INSTALL GROUND MOUNT SIGN
861104	1400 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
861107	1000 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO.14 AWG
861108	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO.14 AWG
862101	1200 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING
862102	400 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	1 EA	FURNISH AND INSTALL SINGLE MAST ARM POLE 12 IN. X 27 FT. AND 38 FT. MAST ARM
800000	1 EA	FURNISH AND INSTALL TWIN MAST ARM POLE 12 IN. X 27 FT. AND 60/50 FT. MAST ARM
800000	3 EA	FURNISH AND INSTALL MICROLOOP PROBE SET 1000 FT. LEAD IN
801104	24 LF	FURNISH AND INSTALL 4" X 4" WOOD POST
837001	2 EA	FURNISH AND INSTALL GROUND ROD -3/4 INCH DIAMETER X 10 FOOT LENGTH
831010	1 EA	FURNISH AND INSTALL 250 WATT HPS LUMNAIRE WITH PHOTO CELL
866101	1 EA	FURNISH AND INSTALL 10 FOOT LIGHTING ARM BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
861116	400 LF	FURNISH AND INSTALL 2 CONDUCTOR ELECTRICAL CABLE (NO.12 AWG) TRAY CABLE
800000	1 EA.	CUT CLEAN AND GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE

THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 4 ARE AS FOLLOWS:

- Mr. David Malkowski  
District Engineer  
Phone (410) 787-7630

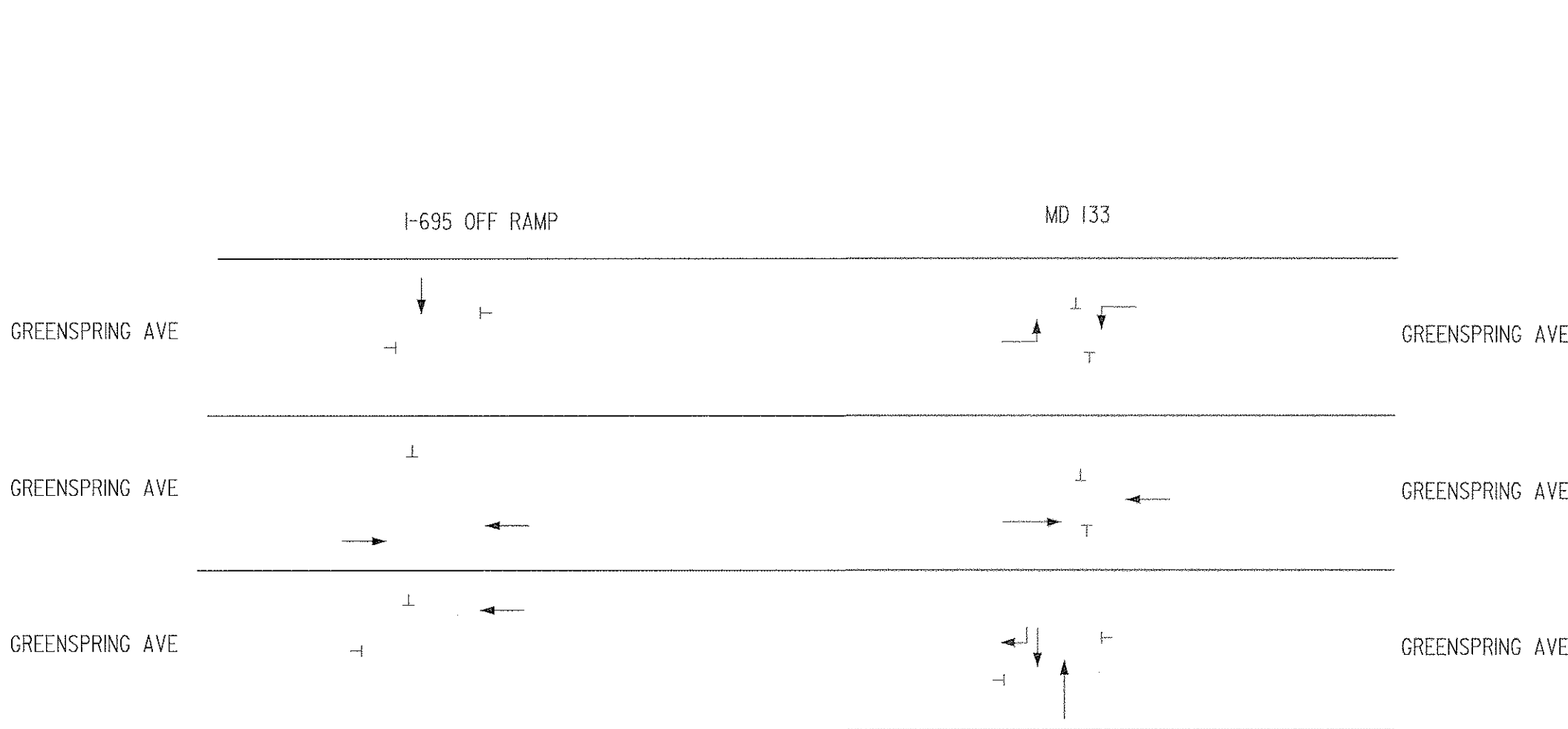
Mr. Randall Scott  
Assistant District Engineer-Traffic  
Phone: (410) 321-2781

Mr. Dave Ramsey  
Assistant District Engineer-Maintenance  
Phone: (410) 321-2761

Mr. Joseph McMahon  
Acting District Engineer-Utility  
Phone: (410) 321-2841

Mr. Richard Daff  
Chief Traffic Operations Division  
Phone: (410) 787-T360

NOTE:  
FOR WIRING DIAGRAM SEE G.I. SHEET TRAFFIC SIGNAL TS-3580E.



	1	2	3	4	5	6	
PHASE CHART							
PHASE 2 & 6	G	G	G	G	R	R	
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	R	R	
PHASE 4	R	R	R	R	G	G	
PHASE 4 CHANGE	R	R	R	R	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GREENSPRING AVE. @ I-695 OFF RAMP			
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION				
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION				
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION				
	DIRECTOR, TRAFFIC & SAFETY				
		DRAWN BY: C. G. MUNZ CHECKED BY: C. G. MUNZ SCALE: N. T. S. DATE: 01-31-00		F.A.P. NO. S.H.A. NO. COUNTY: BALTIMORE LOG MILE: 03IS069515.61	
		TS NO. TS-3958 7.I.M.S. NO. D-176		SHEET NO. 28 OF 34	